

Form PTO-1449		Docket No.: 50777-251099	Application No. 09/820,973			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Applicant: Steve W. Braun				
		Filing Date: March 29, 2001	Group Art Unit 2874			
U.S. PATENT DOCUMENTS						
Examiner Initial	Document Number	Date	Name	Class	Subclass	Translation
ER	4,400,054	08/23/83	Biard, et al.			
JH	4,845,483	07/04/89	Negishi			
JH	4,948,218	08/14/90	Kobayashi, et al.			
JH	5,055,827	10/08/91	Philipp			
JH	5,185,735	02/09/93	Ernst			
JH	5,345,230	09/06/94	Jackson, et al.			
JH	5,471,342	11/28/95	Junginger, et al.			
JH	5,483,233	01/09/96	Pettit, et al.			
JH	5,506,709	04/09/96	Segal, et al.			
JH	5,712,937	01/27/98	Asawa, et al.			
JH	5,745,479	04/28/98	Burns, et al.			
JH	5,815,294	09/29/98	Ishikawa, et al.			
JH	5,825,515	10/20/98	Anderson			
JH	5,894,362	04/13/99	Onaka, et al.			
JH	5,898,801	04/27/99	Braun, et al.			
JH	5,901,260	05/04/99	Braun, et al.			
JH	5,910,851	06/08/99	Flaherty			
JH	5,937,032	08/10/99	Nummelin, et al.			
JH	5,949,560	09/07/99	Roberts, et al.			
JH	6,008,915	12/28/99	Zyskind			
JH	6,075,628	06/13/00	Fisher, et al.			
JH	6,128,111	10/03/00	Roberts			
JH	6,140,920	10/31/00	Roberts			
JH	6,175,533	01/16/01	Luk, et al.			
NON-U.S. PATENT DOCUMENTS						
Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation
ER	9-321739	12/12/97	Japan			
ER	11-87823	03/30/99	Japan			
ER	10-107773	04/24/98	Japan			
ER	9-51322	02/18/97	Japan			
Examiner:			Date Considered:			
[Signature]			1/2005			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO.: L6780/251099	SERIAL NO.:
MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)		APPLICANT: Steve W. Braun	
		FILING DATE: 03/28/01	GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EW	3,883,217	05/13/75	Love et al.			
EW	3,936,141	02/03/76	Milton			
EW	4,054,366	10/18/77	Barnoski et al.			
EW	4,166,946	09/04/79	Chown et al.			
EW	4,234,969	11/18/80	Singh			
EW	4,249,266	02/03/81	Nakamori			
EW	4,301,543	11/17/81	Palmer			
EW	4,307,933	12/29/81	Palmer et al.			
EW	4,317,614	03/02/82	Palmer			
EW	4,366,565	12/28/82	Herskowitz			
EW	4,367,460	01/04/83	Hodara			
EW	4,423,922	01/03/84	Porter			
EW	4,446,515	05/01/84	Sauer et al.			
EW	4,457,581	07/03/84	Johnson et al.			
EW	4,482,980	11/13/84	Korowitz et al.			
EW	4,506,153	03/19/85	Ohno			
EW	4,543,574	09/24/85	Takagi et al.			
EW	4,554,511	11/19/85	Braun			
EW	4,577,184	03/18/86	Hodara et al.			
EW	4,595,839	06/17/86	Braun et al.			
EW	4,630,256	12/16/86	Albanese			
EW	4,671,608	06/19/87	Konish			
EW	4,674,830	06/23/87	Shaw et al.			
EW	4,717,229	01/05/88	Cutler			
EW	4,759,011	07/19/88	Hicks Jr.			
EW	4,756,595	07/12/88	Braun et al.			
EW	4,761,833	08/02/88	Epworth			
EW	4,786,130	11/22/88	Georgiou et al.			
EW	4,810,052	03/07/89	Fling			
EW	4,850,047	07/18/89	Iguchi et al.			
EW	4,883,335	11/28/89	Alferness et al.			
EW	4,898,565	02/06/90	Braun			
EW	4,932,004	06/05/90	Hodara et al.			
EW	4,946,244	08/07/90	Schembri			
EW	5,046,137	09/03/91	Kurobe et al.			

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09/820973



03/29/01

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
EW	5,058,974	10/22/91	Mollenauer				
EW	5,083,874	01/28/92	Aida et al.				
EW	5,117,303	05/26/92	Desurvire et al.				
EW	5,129,019	07/07/92	Robberg et al.				
EW	5,133,031	07/21/92	Tanaka et al.				
EW	5,179,603	01/12/93	Hall et al.				
EW	5,181,134	01/19/93	Fatehi et al.				
EW	5,187,605	02/16/93	Shikata et al.				
EW	5,212,577	05/18/93	Nakamura et al.				
EW	5,222,166	06/22/93	Weltha				
EW	5,307,197	04/26/94	Tanabe et al.				
EW	5,309,564	05/03/94	Bradley et al.				
EW	5,315,424	05/24/94	Boden et al.				
EW	5,317,580	05/31/94	Auffret et al.				
EW	5,347,384	09/13/94	McReynolds et al.				
EW	5,369,516	11/29/94	Uchida				
EW	5,412,746	05/02/95	Rossberg et al.				
EW	5,432,874	07/11/95	Muraguchi				
EW	5,479,082	12/26/95	Calvani et al.				
EW	5,533,153	07/02/96	Ota				
EW	5,539,558	07/23/96	Yonemura et al.				
EW	5,548,431	08/20/96	Shin et al.				
EW	5,572,612	11/05/96	Delavaux et al.				
EW	5,615,290	03/25/97	Harasawa et al.				
EW	5,664,035	09/02/97	Tsuji et al.				
EW	5,684,899	11/04/97	Ota				
EW	5,712,932	01/27/98	Alexander et al.				
EW	5,717,795	02/10/98	Sharma et al.				
EW	5,764,821	06/09/98	Glance				
EW	5,778,118	07/07/98	Sridhar				
EW	5,793,908	08/11/98	Mizuochi et al.				
EW	5,796,890	08/18/98	Tsuji et al.				
EW	5,809,187	09/15/98	Peck, Jr. et al.				
EW	5,825,949	10/20/98	Choy et al.				
EW	5,838,989	11/17/98	Hutchison et al.				

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U.S. PATENT DOCUMENTS							
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<i>EW</i>	5,943,148	08/24/99	Hamel et al.				
<i>EW</i>	6,014,481	01/11/00	Kremers				
<i>EW</i>	6,122,095	09/19/00	Fatchi			8/29/97	
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
<i>EW</i>	Appln. 0 069 356 A2	01/12/83	EPO				✓
<i>EW</i>	Appln 0 105 753 A2	04/18/84	EPO			✓	
<i>EW</i>	Appln 0 164 652 A2	12/18/85	EPO				✓
<i>EW</i>	Appln 0 231 635 A2	08/12/87	EPO			✓	
<i>EW</i>	Appln 0 356 090 A2	02/28/90	EPO			✓	
<i>EW</i>	Appln 0 739 103 A2	10/23/96	EPO			✓	
<i>EW</i>	Appln 0 744 797 A1	11/27/96	EPO				✓
<i>EW</i>	Appln 0 905 936 A2	03/31/91	EPO			✓	
<i>EW</i>	PUB EP000103873A2	03/28/94	EPO			✓	
<i>EW</i>	86-191340/30	06/13/86	France				✓
<i>EW</i>	DE 3807072 A1	08/04/88	Germany				✓
<i>EW</i>	DE 3938856 A1	11/23/89	Germany				✓
<i>EW</i>	DE 4331330 A1	09/15/93	Germany				✓
<i>EW</i>	DE 4427187 A1	02/08/96	Germany				✓
<i>EW</i>	7-202921	08/04/94	Japan				✓
<i>EW</i>	11-331224	03/31/99	Japan				✓
<i>EW</i>	2,087,679	05/26/82	U.K.			✓	
<i>EW</i>	2,102,232	01/26/83	U.K.			✓	
<i>EW</i>	2,189,961	11/04/87	U.K.			✓	
<i>EW</i>	WO 93/03406	02/18/93	WIPO			✓	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>EW</i>	Stewart D. Personick, <i>Optical Fiber Transmission Systems</i> 1 – 3 (1981)						
<i>EW</i>	H. Hodara and E. Miles, <i>High-Speed Local Area Networks, Fiber and Integrated Optics</i> 253 – 277 (1992)						

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
EW	N.A. Olsson, <i>Lightwave Systems With Optical Amplifiers</i> , Journal of Lightwave Technology 1071-1082 (July, 1989)		
EW	ITU-T Recommendation G.681, Series G: Transmission Systems and Media, Digital Systems and Networks; Functional characteristics of interoffice and long-haul systems using optical amplifiers, including optical multiplexing (10/96)		
EW	ITU-T Recommendation G.692, Series G: Transmission Systems and Media, Digital Systems and Networks; Optical interfaces for multichannel systems with optical amplifiers (10/98)		
EW	Gordon Thomas, David A. Ackerman, Paul R. Prucnal, and S. Lance Cooper, <i>Physics In The Whirlwind of Optical Communications</i> , Physics Today 30-36 (Sept. 2000)		
EW	Chart and figures for optical fiber cable and baseband transmission, available at http://www.microsoft.com/technet/WFW/wfw31/1_ch1.asp		
EW	HDR 7.0 2 73; 7.0 Fiber Optic Ethernet -- Types FOIRL and 10 BASE-F available at http://www.uni-trier.de/infos/ether/ethernet-guide/ethernet-guide.html		
EW	3.0 IEEE Acronyms available at http://spacey.net/davis/Design_Ethernet_Note.html		
EW	Fibre Channel -- Overview of the Technology, 09/09/2000, pp 1 -- 9 available at http://fibrechannell.org/technology		
EW	Bi-Directional Optical Backplane Bus for Board to Board Optoelectronic Interconnects, Gicheri Kim, Jinghui Fa and Ray T. Chen, 1-4 (09/09/2000) available at http://ece.utexas.edu/projects/ece/mrc/profs/chen_projects/optbus/optbus.html		
EW	SOME Bus (Simultaneous Optical Multiprocessor Exchange Bus)(09/09/2000) available at http://eb.uah.edu/~cohen/some_bus/some_bus.html		
EW	Integrated Explorations of the Spectral, Temporal and Spatial Degrees of Freedom 1 (09/09/2000) available at http://thebusinessedge.com/reruns/cito/sargent/sld001.htm		
EW	Challenges in IP LANs on Higher-Dimensional Encoding (slide 4) (09/09/2000) available at http://thebusinessedge.com/reruns/cito/sargent/sld004.htm		
EW	0034-P PCI Fibre Channel Optical Host BUS Adapter 1- 4 available at http://solutions.sun.com/dbsearch/index.cgi?STATE=product&CMD=show&p_id=58181 (09/09/2000)		
EW	Architectural and Engineering Issues for Building an Optical Internet 1 -- 55 (09/09/00) available at http://www.canet3.net/papers/ArchandEngIssues.html		
EW	Baker, <i>Monomode Fiber-Optic Design with Local- Area and Long-Haul Network Applications</i> 370-371		
EW	Karim, Chapter 9: <i>Electro-Optical Devices and Systems</i> , Fiber-Optics-Based Devices and Systems 434-435		
EW	Chintan Lin, <i>Systems Applications of WDM Technologies in Optical Communications</i> , SPIE-International Society for Optical Engineering (Aug. 15-18, 1994)		
EW	Manuel Lopez-Amo, Loudon T Blair & Paul Urquhart, <i>Wavelength-Division-Multiplexed distributed optical fiber amplifier bus network for data and sensors</i> , Optics Letter 1159-61(July 15, 1993)		
EW	Francesco Matera & Marina Settembre, <i>Performance Evaluation of Optically Amplified Systems Operating in Optical Networks</i> , Microwave & Optical Technology Letters (Nov. 1996)		
EW	Spirit et al., <i>140-km 20-Gbit/s repeaterless transmission employing distributed erbium amplification</i> , Optical Fiber Communication Conference (1992)		
EXAMINER: 		DATE CONSIDERED: 7/2005	
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Sheet 1 of 1

Form PTO-1449

Docket No.:
50777-251099

Application No. 09/820,973

**INFORMATION DISCLOSURE
CITATION
IN AN APPLICATION
(Use several sheets if necessary)**

Applicant: **Steve W. Braun**

Filing Date: March 29, 2001

Group Art Unit
2874

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Translation
<i>AC</i>	5,361,262	11/01/94	Cheung			
<i>AC</i>	6,111,888	08/29/00	Green, et al.			
			/			

NON-U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation
<i>A</i>	EP0393293	10/24/90	Europe (EPO)			
<i>a</i>	EP0451426	10/16/91	Europe (EPO)			
<i>S</i>	EP0503212	09/16/92	Europe (EPO)			
			/			

OTHER MATERIAL

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Examiner:

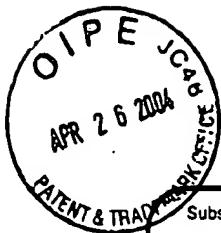
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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NO. 50777/251099		SERIAL NO.: 09/820,973	
MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)				APPLICANT. Steve W. Braun			
				FILING DATE. March 29, 2001		GROUP. 26287433	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
EW	3,887,876	06/03/75	Zeidler				
EW	3,943,358	03/09/76	Reymond et al.				
EW	4,435,849	03/06/84	Ilgner et al.				
EW	4,731,784	03/15/88	Keller et al.				
EW	4,829,593	05/09/89	Hara				
EW	4,947,134	08/07/90	Olsson				
EW	4,958,354	09/18/90	Urakami et al.				
EW	5,080,505	01/14/92	Epworth				
EW	5,117,196	05/26/92	Epworth et al.				
EW	5,296,957	03/22/94	Takahashi et al.				
EW	5,502,589	03/26/96	Yamamoto et al.				
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
EW	GB 2 255 683 A	11/11/92	Great Britain				
EW	DE 30 07 958	09/17/81	German*			X	
EW	GB 2 073 877 A	10/21/81	Great Britain				
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER:				DATE CONSIDERED: 1/2005			
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*For English version see related Great Britain Application No. 2 073 877 A



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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number	09/820,973
Date Filed:	March 29, 2001
First Named Inventor	Braun
Group Art Unit	2874
Examiner Name	
Attorney Docket Number	50777/251099

U. S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
EW		4,545,074	10/01/1985	Balliet, et al.	
EW		2002/0018260 A1	02/14/2002	Kisovec, et al.	Date No Good
EW		6,449,072 B1	09/10/2002	Sian, et al.	

FOREIGN PATENT DOCUMENTS

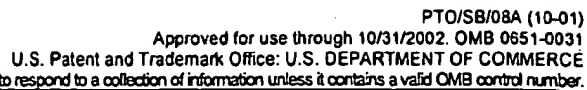
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
EW		0 380 341 A2	08/01/1990	Europe		
EW		1 246 378 A2	10/02/2002	Europe		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
EW		International Search Report in related Application No. PCT/US03/30326	
EW		International Search Report in related Application No. PCT/US03/29970	

Examiner Signature		Date Considered	1/2005
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	1
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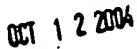
Application Number	09/820,973
Filing Date	March 29, 2001
First Named Inventor	Steve W. Braun
Group Art Unit	2874
Examiner Name	Sanghavi, HEMANG
Attorney Docket Number	50777/251099

U.S. PATENT DOCUMENTS

Examiner Signature		Date Considered	1/2005
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Sheet	1	of	1
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Application Number	09/820,973
Filing Date	March 29, 2001
First Named Inventor	Steve W. Braun
Group Art Unit	2874
Examiner Name	Sanghavi, HEMANG
Attorney Docket Number	50777/251099

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Examiner Signature

Date Considered

1/2005

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1826405

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Group Art Unit	2874
Examiner Name	
Attorney Docket Number	50777/251099

Sheet	1	of	2
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
fr		0 899 161 A1	03/03/1999	Europe		Abstract
h		0 350 720 A2 and A3	01/17/2001	Europe		Abstract
en		0 414 333 A2 and A3	02/27/1991	Europe		

Examiner Signature

Date Considered

1/2005

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Attorney Docket Number	5077/251099

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Sheet	2		2
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